

CLAIMS

What is claimed is,

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1. A method of denaturing or perforating a specific site of a membrane, the method comprising contacting the whole or part of the membrane with a reagent containing a specific compound that induces a membrane-denaturing reaction by a specific stimulation, and giving said stimulation.
 2. The method of claim 1, wherein the membrane is a cell membrane, a cell wall, a biomembrane, or an artificial membrane.
 3. The method of claim 1 or 2, wherein the region stimulated is included in the region contacted with the reagent.
 4. The method of claim 1 or 2, wherein the region contacted with the reagent is included in the region stimulated.
 5. The method of claim 4, wherein the reagent is contacted using a support.
 6. A method of ~~any one of claims 1 to 5~~, wherein the specific stimulation is light, and the compound is a photosensitizing compound.
 7. A membrane obtained by the method of ~~any one of claims 1 to 6~~, wherein the specific site has been perforated or denatured, or a membrane structure containing said membrane.
 8. The membrane or membrane structure containing said membrane of claim 7, wherein the membrane is a cell membrane, a biomembrane, or an artificial membrane.
 9. The membrane structure of claim 7 ~~or 8~~, which is a cell, a micelle, or a liposome.
 10. A method of injecting a compound into a structure, the method comprising mixing the structure of ~~any one of claims 7 to 9~~ with a complex comprising a compound to be injected and a carrier.
 11. The method of 10, wherein the carrier is a liquid or solid.
 12. A method of claim 10 ~~or 11~~, wherein the substance is a nucleic acid or protein.
 13. A membrane-destroying member for denaturing or perforating a specific site of a membrane, which comprises a support, and a membrane denaturation promoting portion comprising a membrane denaturation force other than physical shear force, which was formed on at least one site on the surface of the support.
 14. The membrane-destroying member of claim 13, wherein the

support is rod-shaped, tube-shaped, needle-shaped, or spherical.

a 15. The membrane-destroying member of claim 13 ~~or 14~~, wherein the membrane denaturation promoting portion is coated or fixed with a compound that generates the membrane denaturation reaction at the membrane denaturation promoting portion.

5 16. The membrane-destroying member of claim 15, which utilizes a sequential peroxidation reaction of the membrane components, in which the membrane denaturation reaction is started by a direct/indirect production reaction of reactive oxygen species.

a 10 17. The membrane-destroying member of claim 15 ~~or 16~~, wherein the membrane denaturation reaction is induced by a specific stimulation and reaction precursor, and includes the reaction that denatures or perforates the membrane.

15 18. The membrane-destroying member of claim 17, wherein the specific stimulation is light, and the reaction precursor is a photosensitizing compound.

a 20 19. The membrane-destroying member of ~~any one of claims 13 to 18~~, wherein the support penetrates the membrane following membrane denaturation or disruption, and said penetrated membrane closely contacts with said support.

a 25 20. The membrane-destroying member of ~~any one of claims 13 to 19~~, wherein the membrane is a cell membrane, a biomembrane or an artificial membrane.

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